

0590  
1009

# 2

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/977,053

DATE: 11/06/2001

TIME: 10:50:42

Input Set : A:\LEX-0256-USA seqlist.txt

Output Set: N:\CRF3\11062001\1977053.raw

ENTERED

4 <110> APPLICANT: Friddle, Carl Johan  
 5 Hilbun, Erin  
 6 Walke, D. Wade  
 7 Turner, C. Alexander Jr.  
 9 <120> TITLE OF INVENTION: Novel Human Membrane Protein and  
 10 Polynucleotides Encoding the Same  
 13 <130> FILE REFERENCE: LEX-0256-USA  
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 C--> 15 <141> CURRENT FILING DATE: 2001-10-12  
 15 <150> PRIOR APPLICATION NUMBER: US 60/240,466  
 16 <151> PRIOR FILING DATE: 2000-10-13  
 18 <160> NUMBER OF SEQ ID NOS: 7  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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 23 <211> LENGTH: 3324  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: homo sapiens  
 27 <400> SEQUENCE: 1

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 29 ttccagcaga tgtcccgctc gcgcaatttc agcttccgcc tcttccccga gaccgcgccc 120  
 30 ggggcccccg ggagtatccc cgcgccgccc gctcctggcg acgaagcggc ggggagcaga 180  
 31 gtggagcggc tgggccaggc gttccggcga cgcgtgcggc tgctgcggga gctcagcgag 240  
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 34 cgcgtggcca tcgtgacctt ctctccaaag aactacgtgg tgccgcgcgt cgattacatc 420  
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 38 gggggagacc cttagaccaat tgcagcgtca ctgcgagatt caggagtggg gatcttact 660  
 39 tttggcatat ggcaaggga cattcgagag ctgaatgaca tggcttccac cccaaaggag 720  
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58 gtgtcagtc acgttcatcc agctttcacc ccaccttacc ttttcccaat tggagatggt 1860
59 gctatcgtat acacggcaac tgacctatcc ggcaaccagg ccagctgcat tttccatata 1920
60 aagggttatt atgcagaacc acctgtcata gactgggtgca gatctccacc tcccgtccag 1980
61 gtctcggaga aggtacatgc cgcaagctgg gatgagcctc agttctcaga caactcaggg 2040
62 gctgaattgg tcattaccag aagtcataca caaggagacc ttttccctca aggggagact 2100
63 atagtacagt atacagccac tgacctctca ggcaataaca ggacatgtga tatccatatt 2160
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66 gaaggggtcta ctgacaagta ttattgtgct tatgaagatg gcgtctggaa accaacaatat 2340
67 accactgaat ggccagactg tgccaaaaaa cgttttgcaa accacggggt caagtccttt 2400
68 gagatgttct acaaagcagc tcgttgtgat gacacagatc tgatgaagaa gttttctgaa 2460
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70 gactgcagac tggaggagaa cctgaccaa aaatattgcc tagaatataa ttatgactat 2580
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81 tcaactagaa gcagcccaat tttgtttcc cttttggggg aaagaaagat ttattttctt 3240
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85 &lt;210&gt; SEQ ID NO: 2

86 &lt;211&gt; LENGTH: 1107

87 &lt;212&gt; TYPE: PRT

88 &lt;213&gt; ORGANISM: homo sapiens

90 &lt;400&gt; SEQUENCE: 2

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92 1 5 10 15
93 Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
94 20 25 30
95 Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
96 35 40 45
97 Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
98 50 55 60
99 Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Glu
100 65 70 75 80
101 Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu
102 85 90 95
103 Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp
104 100 105 110
105 Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser
106 115 120 125
107 Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg

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110 145      150      155      160
111 Ser Tyr Arg Gly Gly Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala
112      165      170      175
113 Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe
114      180      185      190
115 Leu Ile Thr Asp Gly Tyr Ser Asn Gly Gly Asp Pro Arg Pro Ile Ala
116      195      200      205
117 Ala Ser Leu Arg Asp Ser Gly Val Glu Ile Phe Thr Phe Gly Ile Trp
118      210      215      220
119 Gln Gly Asn Ile Arg Glu Leu Asn Asp Met Ala Ser Thr Pro Lys Glu
120 225      230      235      240
121 Glu His Cys Tyr Leu Leu His Ser Phe Glu Glu Phe Glu Ala Leu Ala
122      245      250      255
123 Arg Arg Ala Leu His Glu Asp Leu Pro Ser Gly Ser Phe Ile Gln Asp
124      260      265      270
125 Asp Met Val His Cys Ser Tyr Leu Cys Asp Glu Gly Lys Asp Cys Cys
126      275      280      285
127 Asp Arg Met Gly Ser Cys Lys Cys Gly Thr His Thr Gly His Phe Glu
128      290      295      300
129 Cys Ile Cys Glu Lys Gly Tyr Tyr Gly Lys Gly Leu Gln Tyr Glu Cys
130 305      310      315      320
131 Thr Ala Cys Pro Ser Gly Thr Tyr Lys Pro Glu Gly Ser Pro Gly Gly
132      325      330      335
133 Ile Ser Ser Cys Ile Pro Cys Pro Asp Glu Asn His Thr Ser Pro Pro
134      340      345      350
135 Gly Ser Thr Ser Pro Glu Asp Cys Val Cys Arg Glu Gly Tyr Arg Ala
136      355      360      365
137 Ser Gly Gln Thr Cys Glu Leu Val His Cys Pro Ala Leu Lys Pro Pro
138      370      375      380
139 Glu Asn Gly Tyr Phe Ile Gln Asn Thr Cys Asn Asn His Phe Asn Ala
140 385      390      395      400
141 Ala Cys Gly Val Arg Cys His Pro Gly Phe Asp Leu Val Gly Ser Ser
142      405      410      415
143 Ile Ile Leu Cys Leu Pro Asn Gly Leu Trp Ser Gly Ser Glu Ser Tyr
144      420      425      430
145 Cys Arg Val Arg Thr Cys Pro His Leu Arg Gln Pro Lys His Gly His
146      435      440      445
147 Ile Ser Cys Ser Thr Arg Glu Met Leu Tyr Lys Thr Thr Cys Leu Val
148      450      455      460
149 Ala Cys Asp Glu Gly Tyr Arg Leu Glu Gly Ser Asp Lys Leu Thr Cys
150 465      470      475      480
151 Gln Gly Asn Ser Gln Trp Asp Gly Pro Glu Pro Arg Cys Val Glu Arg
152      485      490      495
153 His Cys Ser Thr Phe Gln Met Pro Lys Asp Val Ile Ile Ser Pro His
154      500      505      510
155 Asn Cys Gly Lys Gln Pro Ala Lys Phe Gly Thr Ile Cys Tyr Val Ser
156      515      520      525

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157 Cys Arg Gln Gly Phe Ile Leu Ser Gly Val Lys Glu Met Leu Arg Cys
158      530      535      540
159 Thr Thr Ser Gly Lys Trp Asn Val Gly Val Gln Ala Ala Val Cys Lys
160 545      550      555      560
161 Asp Val Glu Ala Pro Gln Ile Asn Cys Pro Lys Asp Ile Glu Ala Lys
162      565      570      575
163 Thr Leu Glu Gln Asp Ser Ala Asn Val Thr Trp Gln Ile Pro Thr
164      580      585      590
165 Ala Lys Asp Asn Ser Gly Glu Lys Val Ser Val His Val His Pro Ala
166      595      600      605
167 Phe Thr Pro Pro Tyr Leu Phe Pro Ile Gly Asp Val Ala Ile Val Tyr
168      610      615      620
169 Thr Ala Thr Asp Leu Ser Gly Asn Gln Ala Ser Cys Ile Phe His Ile
170 625      630      635      640
171 Lys Val Ile Asp Ala Glu Pro Pro Val Ile Asp Trp Cys Arg Ser Pro
172      645      650      655
173 Pro Pro Val Gln Val Ser Glu Lys Val His Ala Ala Ser Trp Asp Glu
174      660      665      670
175 Pro Gln Phe Ser Asp Asn Ser Gly Ala Glu Leu Val Ile Thr Arg Ser
176      675      680      685
177 His Thr Gln Gly Asp Leu Phe Pro Gln Gly Glu Thr Ile Val Gln Tyr
178      690      695      700
179 Thr Ala Thr Asp Pro Ser Gly Asn Asn Arg Thr Cys Asp Ile His Ile
180 705      710      715      720
181 Val Ile Lys Gly Ser Pro Cys Glu Ile Pro Phe Thr Pro Val Asn Gly
182      725      730      735
183 Asp Phe Ile Cys Thr Pro Asp Asn Thr Gly Val Asn Cys Thr Leu Thr
184      740      745      750
185 Cys Leu Glu Gly Tyr Asp Phe Thr Glu Gly Ser Thr Asp Lys Tyr Tyr
186      755      760      765
187 Cys Ala Tyr Glu Asp Gly Val Trp Lys Pro Thr Tyr Thr Thr Glu Trp
188      770      775      780
189 Pro Asp Cys Ala Lys Lys Arg Phe Ala Asn His Gly Phe Lys Ser Phe
190 785      790      795      800
191 Glu Met Phe Tyr Lys Ala Ala Arg Cys Asp Asp Thr Asp Leu Met Lys
192      805      810      815
193 Lys Phe Ser Glu Ala Phe Glu Thr Thr Leu Gly Lys Met Val Pro Ser
194      820      825      830
195 Phe Cys Ser Asp Ala Glu Asp Ile Asp Cys Arg Leu Glu Glu Asn Leu
196      835      840      845
197 Thr Lys Lys Tyr Cys Leu Glu Tyr Asn Tyr Asp Tyr Glu Asn Gly Phe
198      850      855      860
199 Ala Ile Gly Pro Gly Gly Trp Gly Ala Ala Asn Arg Leu Asp Tyr Ser
200 865      870      875      880
201 Tyr Asp Asp Phe Leu Asp Thr Val Gln Glu Thr Ala Thr Ser Ile Gly
202      885      890      895
203 Asn Ala Lys Ser Ser Arg Ile Lys Arg Ser Ala Pro Leu Ser Asp Tyr
204      900      905      910
205 Lys Ile Lys Leu Ile Phe Asn Ile Thr Ala Ser Val Pro Leu Pro Asp

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Input Set : A:\LEX-0256-USA seqlist.txt

Output Set: N:\CRF3\11062001\I977053.raw

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206          915          920          925
207 Glu Arg Asn Asp Thr Leu Glu Trp Glu Asn Gln Gln Arg Leu Leu Gln
208          930          935          940
209 Thr Leu Glu Thr Ile Thr Asn Lys Leu Lys Arg Thr Leu Asn Lys Asp
210 945          950          955          960
211 Pro Met Tyr Ser Phe Gln Leu Ala Ser Glu Ile Leu Ile Ala Asp Ser
212          965          970          975
213 Asn Ser Leu Glu Thr Lys Lys Ala Ser Pro Phe Cys Arg Pro Gly Ser
214          980          985          990
215 Val Leu Arg Gly Arg Met Cys Val Asn Cys Pro Leu Gly Thr Tyr Tyr
216          995          1000          1005
217 Asn Leu Glu His Phe Thr Cys Glu Ser Cys Arg Ile Gly Ser Tyr Gln
218          1010          1015          1020
219 Asp Glu Glu Gly Gln Leu Glu Cys Lys Leu Cys Pro Ser Gly Met Tyr
220 1025          1030          1035          1040
221 Thr Glu Tyr Ile His Ser Arg Asn Ile Ser Asp Cys Lys Gly Arg Gly
222          1045          1050          1055
223 Leu Leu Asp Ile Ser Thr Arg Ser Ser Pro Ile Phe Val Ser Leu Leu
224          1060          1065          1070
225 Gly Glu Arg Lys Ile Tyr Phe Leu His Pro Thr Leu Gly Ser Cys Leu
226          1075          1080          1085
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229 Tyr Ser Ile
230 1105
233 <210> SEQ ID NO: 3
234 <211> LENGTH: 10716
235 <212> TYPE: DNA
236 <213> ORGANISM: homo sapiens
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243 cgcttgagc ttgtcttctt ggtggatgat tcgtccagcg tgggcgaagt caacttccgc 300
244 agcgagctca tgttcgtccg caagctgctg tccgacttcc ccgtggtgcc cacggccacg 360
245 cgcgtggcca tcgtgacctt ctgctccaag aactacgtgg tgccgcgcgt cgattacatc 420
246 tccaccgcgc gcgcgcgcca gcacaagtgc gcgctgctcc tccaagagat ccctgccatc 480
247 tcctaccgag gtggcggcac ctacaccaag ggcgccttcc agcaagccgc gcaaattctt 540
248 cttcatgcta gagaaaactc aacaaaagtt gtatttctca tcaactgatg atattccaat 600
249 gggggagacc ctagaccaat tgcagcgtca ctgcgagatt caggagtgga gatcttact 660
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255 acagcttgcc catcggggac atacaaacct gaaggctcac caggaggaat cagcagttgc 1020
256 attccatgtc ctgatgaaaa tcacacctct ccacctggaa gcacatcccc tgaagactgt 1080
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/977,053

DATE: 11/06/2001

TIME: 10:50:44

Input Set : A:\LEX-0256-USA seqlist.txt

Output Set: N:\CRF3\11062001\I977053.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date